

Message Text

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DRAFTED BY EPA/ORD: H. WISER:JM
APPROVED BY OES/APT/SEP: R. G. MORRIS
EUR/SOV: R. WINDSOR
EPA/EXECSEC: P. SHOSTAL
EPA/OIA: A. B. POPKIN
OES/APT/SEP: D. CRAMER
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TAGS: SENV, US, UR

SUBJECT: US-USSR ENVIRONMENTAL AGREEMENT: PROJECT 02.01-12,
INSTRUMENTATION AND MEASUREMENT METHODOLOGY

REF: MOSCOW 03740

1. REQUEST CONGEN DELIVER FOLLOWING LETTER DATED MARCH 24
FROM US PROJECT LEADER HERBERT WISER TO SOVIET PROJECT LEADER
STEPANENKO, AND EMBASSY PASS TO KAZAKOV.
2. MARCH 24, 1978 02.01-12

DR. VLADIMIR D. STEPANENKO
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DEPUTY DIRECTOR
VOYEIKOV MAIN GEOPHYSICAL LABORATORY
ULITSA KARBYSHEV 7
194018 LENINGRAD

DEAR DR. STEPANENKO:

RE: EQUIPMENT AND PERSONNEL FOR JOINT US-USSR NATURAL AEROSOL STUDY.
THE INSTRUMENTS AND ASSOCIATED EQUIPMENT WHICH THE US PARTICIPANTS PLAN TO TAKE TO THE SOVIET UNION FOR THE JOINT US-USSR

NATURAL AEROSOL EXPERIMENT ARE LISTED BELOW ALONG WITH THE ORGANIZATIONAL UNIT RESPONSIBLE FOR SUPPLYING THEM. AS THE EQUIPMENT WILL BE NEEDED IN THE US, IT MUST BE PACKED AND RETURNED TO THE US AT THE TIME THE US PARTICIPANTS LEAVE THE USSR. WE WILL SUPPLY YOU SHORTLY WITH INFORMATION ON SIZE, WEIGHT, AND POWER REQUIREMENTS.

OUR PRESENT PLANS FOR PERSONNEL ARE AS FOLLOWS: FOR THE DURATION OF THE EXPERIMENT, FOUR UNIVERSITY SCIENTISTS AND ONE EPA SCIENTIST (AL WAGGONER, NORM ALQUIST, AND RAY WEISS, UNIVERSITY OF WASHINGTON, SEATTLE; DAGMAR CRONE, WASHINGTON STATE, PULLMAN; TOM DZUBAY, EPA). DEPENDING ON PERSONNEL COMMITMENTS AND AVAILABILITY OF TRAVEL FUNDS ONE OR TWO ADDITIONAL EPA SCIENTISTS (WILLIAM E. WILSON, ROBERT K. STEVENS) MAY ALSO GO TO THE SOVIET UNION FOR THE START-UP PERIOD.

THE SOVIET SIDE SHOULD PLAN TO HAVE AT LEAST ONE SOVIET SCIENTIST OR TECHNICIAN WORK WITH EACH OF THE US SCIENTISTS WHO WILL STAY THE FULL TIME. IF THE SOVIET SIDE DESIRES TO RUN CONTINUOUSLY ROUND THE CLOCK, TWO SOVIET EXPERTS SHOULD

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BE AVAILABLE FOR EACH US SCIENTIST TO PERMIT 8-HOUR SHIFTS AFTER THE SOVIET EXPERTS LEARN TO OPERATE THE INSTRUMENTS.

OUR PRESENT PROPOSED SCHEDULE IS AS FOLLOWS: SHIP INSTRUMENTS FOR ARRIVAL IN MOSCOW BY JULY 14. US PERSONNEL ARRIVE IN MOSCOW JULY 20. BEGIN SET-UP OF INSTRUMENTS IN TBILISI ON JULY 24. INITIATE REGULAR MEASUREMENT PROGRAM ON JULY 29, CONCLUDE REGULAR MEASUREMENT PROGRAM ON AUGUST 25. INSTRUMENTS PACKED FOR RETURN TO US ON AUGUST 30. IF YOU WISH TO PROPOSE ANY CHANGES IN THIS SCHEDULE, PLEASE INFORM US.

DR. ALQUIST DESIRES TO HAVE HIS WIFE ACCOMPANY HIM AT HIS EXPENSE. SHE IS AN ARTIST, WISHES TO PAINT LANDSCAPE SCENES, AND DOES NOT REQUIRE ANY SPECIAL ATTENTION FROM THE SOVIET SIDE REGARDING TOURISM. SHE SIMPLY DESIRES TO WORK ON HER PAINTING. YOUR CONCURRENCE IN THIS SPECIAL CASE WOULD BE APPRECIATED.

I WISH TO CALL YOUR ATTENTION TO THE FACT THAT DAGMAR CRONE, WASHINGTON STATE UNIVERSITY, IS A FEMALE SCIENTIST.

REGARDS,

HERBERT L. WISER

ENCLOSURE (EQUIPMENT LIST)

EQUIPMENT LIST

GAS MONITORING EQUIPMENT:

OZONE (03), ULTRA-VIOLET ABSORPTION - ARB
CARBON MONOXIDE (CO) NON-DISPERSIVE INFRARED ABSORPTION - AIB
SULFUR GAS (S), MELOY 285, FLAME PHOTOMETRIC DETECTOR WITH
SO₂ AND H₂S SCRUBBER AND SO₂ DENUDER TUBE - UW, S
GAS CHROMATOGRAPH FOR TERPENES AND/OR HYDROCARBONS (IF POSSI-
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BLE) - AIB
GAS CHROMATOGRAPH FOR FREONS - WU, P

AEROSOL MONITORING INSTRUMENTS:

THREE-WAVELENGTH INTEGRATING NEPHELOMETER - UW, S
OPTICAL PARTICLE COUNTER - UW, S
ELECTRICAL AEROSOL ANALYZER (WHITBY DESIGN) - UW, S
DATA SYSTEM FOR OPTICAL PARTICLE COUNTER AND ELECTRICAL
AEROSOL ANALYZER - UW, S
THERMAL INTEGRATING NEPHELOMETER - UW, S
TELEPHOTOMETER - AIB

AEROSOL AND GAS COLLECTION EQUIPMENT:

TWO AUTOMATIC DICHOTOMOUS SAMPLES BECKMAN (IF AVAILABLE, IF
UNAVAILABLE AN ADDITIONAL RAPS ADS WILL BE BROUGHT FOR A
TOTAL OF TWO) - AIB
AUTOMATIC DICHOTOMOUS SAMPLER, RAPS - AIB
MANUAL DICHOTOMOUS SAMPLER - AIB
TANDAM FILTER HOLDER AND PUMP - AIB
NITRIC ACID (HNO₃) COLLECTOR - AIB
AEROSOL ABSORPTION DEVICE - UW, S
AEROSOL COLLECTOR FOR HIGH RESOLUTION MASS SPECTROSCOPY -
WU, P
HIGH VOLUME SAMPLER - ARB
FLORIDA STATE AEROSOL COLLECTOR - FSU

DATA COLLECTION:

AUTOMATIC DATA COLLECTION SYSTEM WITH MAGNETIC TAPE STORAGE -
ARB
MULTIPOINT RECORDER - ARB
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3-6 STRIP CHART RECORDER - ARB/AIB

BOTTLED GASES:

FOR CALIBRATION: FREON, CO, SULFUR GAS, NO

FOR INSTRUMENTS: HYDROGEN (H2)-SPECIAL LOW PRESSURE CYLINDERS, HIGH PURITY AIR AND ARGON FOR GAS CHROMATOGRAPHS

SYMBOL	NAME
ARB	AEROSOL RESEARCH BRANCH
AIB	ATMOSPHERIC INSTRUMENTATION BRANCH
UW, S	UNIVERSITY OF WASHINGTON, SEATTLE, WA
WU, P	WASHINGTON STATE UNIVERSITY, PULLMAN, WA. VANCE

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